YAMAHA

PORTABLE DIGITAL MUSICAL INSTRUMENTS

2011 – 2012

For details please contact:

YAMAHA
CREATING 'KANDO' TOGETHER

VEGETABLE OIL INK

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Digital Workstation

The sky's the limit. Our Digital Workstations are jam-packed with advanced features, exceptionally realistic Voices and expressive performance functions that give you the power to create, arrange, perform and record music in any style you desire.

Tyros4
PSR-S910
PSR-S710
PSR-S650
PSR-A2000

Pages 4-7

Piaggero

If playing the piano is your thing, Yamaha has a range of compact piano-centric instruments that have amazingly realistic sound and wonderfully expressive playability. In particular, the ultra-portable Piaggero lets you take your piano and play anywhere.

NP-V80
NP-V60
NP-31
NP-31S
NP-11

Pages 10-11

Digital Keyboard

We've got Digital Keyboards of all types to help every player achieve their full potential. Whether you're just starting out or are an experienced player, our instrument lineup provides a fun way to get your creative juices flowing.

PSR-E423
PSR-E333
PSR-E233
PSR-A300
EZ-200

Pages 12-13

Digital Percussion

If drums and percussion are your forte, our Digital Percussion models give you exceptionally dynamic and realistic sounds, letting you pound out your own beats for practice or performance.

DD-65

Pages 14-15

HEAR THE DIFFERENCE, PLAY YOUR DREAM

Tyros4

The more things change, the more they stay the same. Now in its fourth generation, the Tyros4 retains its ease of use, ergonomic panel layout and playability, and augments it with an even greater and wider variety of Voices, Styles, and sophisticated features.

Yamaha's Premier Music Workstation— Unsurpassed Quality, Features and Performance

Extraordinarily expressive, realistic sound

The Super Articulation Choirs put remarkably human-sounding Voices under your fingers.

Wealth of Voices and effects

Tyros4 features a total of 993 Voices, giving you instant access to virtually every instrument in the real world.

Powerful, pro-quality accompaniment

With the wide variety of 500 built-in dynamic Styles, the Tyros4 puts a huge range of versatile, professional-sounding backing bands at your disposal.

Vocal Harmony 2

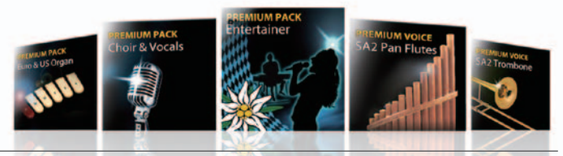
Tyros4's Vocal Harmony feature is such a step forward with its improved sound, tracking and all new Synth Vocoder, we've given it a new name VH2.

- 61 keys FSX with touch sensitivity
- Super Articulation 2 (SA2) Voices for ultimate realism
- Total 500 accompaniment Styles powered Yamaha Style technology with Guitar Enhancement and ultra-realistic Mega and SA2 Voices
- Audio Recorder/Player capable of playing MP3/WAV files from Hard Disk or USB media.
- Large TFT Color Display with RGB/Video output
- 128-note polyphony

Add Even More Sounds with Premium Packs and Voices

PREMIUM PACKS & VOICES

Premium Packs provide a full upgrade for your Tyros4 by adding new Premium Voices, Premium Styles, One Touch Settings, Multi-Pads, registrations and demonstration songs. Each Premium Voice gives you a fantastic new instrument sound that makes for a valuable addition to your Tyros4's selection of built-in factory Voices.



services.music.yamaha.com/voices
eu.yamahamusicsoft.com

Tyros4

Rear Panel

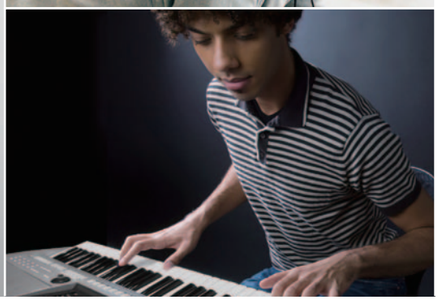
1. TO RIGHT SPEAKER jack
2. LAN terminal
3. USB TO HOST terminal
4. USB TO DEVICE terminal
5. ASSIGNABLE FOOT PEDAL jacks
6. MIDI terminals
7. RGB OUT terminal
8. VIDEO OUT terminal
9. LINE OUT jacks
10. AUX IN/LOOP RETURN jacks
11. AUX OUT/LOOP SEND jacks
12. MIC jack (Combo Jack) either XLR or 1/4" Phone plug connector
13. TO SUB WOOFER jacks
14. Power on/off switch (⏻)
15. AC IN terminal
16. TO LEFT SPEAKER jack

Tyros4 Optional Accessories

Keyboard Stand: L-7S
Option Speaker: TRS-MS04

Flash Memory Expansion Module:
FL512M (512 MB) /
FL1024M (1GB <1024 MB>)

Expand your musical world



NEW

PSR-S650

With a wide variety of high-quality Voices and Styles plus FlashROM expansion to add even more, the PSR-S650 gives you essential tools for creative performance and song arrangement.

- 61 regular-sized touch sensitive keys and 64-note polyphony
- 357 realistic instrument Voices (including 9 MegaVoices), 480 XG Voices and 28 Drum/SFX Kits
- Super-realistic Sweet!, Cool! and Live! Voices
- 181 built-in accompaniment Styles powered Yamaha Style technology with Guitar Enhancement and ultra-realistic Mega Voices
- Supports Expansion Pack Voices & Styles
- Exceptionally clear and powerful sounds enhanced with high-quality DSP effects
- Custom Scale Tuning
- Time adjustable ECO (Energy Conservation Optimized) energy-saving feature

PSR-S910

With an even greater and wider selection of Voices, enhanced effects, and an amazing variety of music genres and new Styles, the PSR-S910 provides stunning musical power and enormous value.

- 61 regular-sized touch sensitive keys and 128-note polyphony
- Super Articulation Voices for ultra-realistic instrument sounds
- Accompaniment Styles powered by MegaVoices (total of 322 accompaniment Styles)
- Includes SFF GE Styles for super realistic Guitar phrases
- USB Audio Recorder and MP3 playback
- LAN Port for Internet Direct Connection access
- TFT Color LCD display

PSR-S710

Packed with a selection of superior Voices, plus a huge variety of music genres and new Styles, this instrument gives you top music performance.

- 61 regular-sized touch sensitive keys and 128-note polyphony
- Accompaniment Styles powered by MegaVoices (total of 232 accompaniment Styles)
- Includes SFF GE Styles for super realistic Guitar phrases
- USB Audio Recorder
- LAN Port for Internet Direct Connection access
- Large full-dot LCD screen displays lyrics and score

NEW

PSR-A2000 اوریتال

No matter the venue or musical genre, Yamaha's PSR-A2000 is the answer to all of your performance and composition needs. An amazing range of World Music Voices and Styles, versatile joystick controller, and a powerful custom scale function make this keyboard everything you could want a musical instrument.

- 61 regular-sized touch sensitive keys and 128-note polyphony
- 565 realistic instrument Voices (including 43 Middle Eastern Voices), 480 XG Voices and 33 Drum/SFX Kits
- 146 Middle Eastern Styles added to the extensive collection of world music sounds (total of 351 accompaniment Styles)
- Includes SFF GE Styles for super realistic guitar phrases
- Supports Expansion Voices & Styles
- USB audio recording/playback
- Dedicated Scale Setting panel buttons for custom scale tuning
- Joystick controller
- Time adjustable ECO (Energy Conservation Optimized) energy-saving feature

Voice & Style Expansion

Optionally available Expansion Packs can be installed to the instrument, letting you add a variety of new Voices and Styles. Expansion Packs have been developed for a wide variety of regional music genres, and you're sure to find the Voices and Styles you need for playing virtually any kind of music! For details on obtaining Expansion Packs, refer to the Yamaha website: **services.music.yamaha.com/vse**

Global Music Expansion

Voice & Style Expansion

Our world is getting smaller all the time. For PSR players, though, the musical world is getting larger. Much larger. And that's just the way they like it.
Thanks to Yamaha's new Voice & Style Expansion contents for the PSR, players can take advantage of a wide and ever-increasing selection of regional, ethnic and traditional Voices and Styles. Load them to your PSR and instantly play authentic sounds, rhythm and backing in the musical style of your choice!
And the best part? Owners of the PSR-S650 and PSR-A2000 can download the bonus Expansion Pack over the Internet for free!

There's more to come, too. A wide variety of Voice/Style Expansion contents specific to various regions are scheduled for future release. All have been specially recorded and programmed by professional musicians in each region, and come with companion effect and other settings for optimum performance. Use the contents as they are for an authentic feel, or mix them with other Voices/Styles on your PSR and create your own unique, cutting-edge music. The possibilities are endless!

Installing Expansion Packs are exceptionally easy, and once loaded, their Voices and Styles can be selected and played in exactly the same way as the preset Voices and Styles. Additionally, they include all new waveforms/samples, recorded specifically for the Packs! Currently (as of summer, 2011), PSR instruments compatible with the Expansion Packs are the PSR-S650 and PSR-A2000.

How to install to the PSR-S650

1. Connect a formatted USB flash memory to the USB TO DEVICE terminal, and then call up the FILE CONTROL display.
2. Use the CATEGORY [◄] and [►] buttons to select "Expansion Pack Installation."
3. Use the dial to select the Expansion Pack you want to install.
   Press the [EXECUTE] button, and press it again to execute the installation.

When installation is completed, a message will appear prompting you to turn the power off and on again.
Turn the power off, and then back on.

How to use Expansion Voices (or Styles)

1. Press the [EXPANSION] button in the VOICE section (or STYLE section).
2. Select the installed Voice, and then play the keyboard (or the selected Style).

Compatible instruments:

PSR-S650

PSR-A2000

How can I get the bonus Voices and Styles?

Simply go to the Yamaha website below, select your particular instrument, and download the free content.
More bonus packs and commercially available content will be added as they're created, so be sure to check back!

For more information: http://services.music.yamaha.com/vse

Get rich piano sound in a compact, carry-anywhere package.
The NP-31 gives you Yamaha's world-renowned piano tone and a full-sized 76-key keyboard—yet is ultra-portable, so you can play it anywhere you want!

NP-31

Features superior instrument sounds with
an expressive Graded Soft Touch key action, plus an
easy-to-use panel design with dedicated Voice-select buttons.

NP-31S

NP-11

- 76-key (NP-31) and 61-key (NP-11) models with piano-style keyboard
- Graded Soft Touch Keyboard action (NP-31)
- Exceptionally realistic piano sound with AWM Stereo Sampling technology
- 10 Voices (including Electric Piano, Organ, Harpsichord, Strings and Vibraphone) with sound demos and 10 piano songs
- Full 32-note polyphony, for natural playing and sustained piano sound
- Intuitive, easy-access panel with dedicated buttons for each Voice
- Four types of Reverb effects
- Operates on battery power (6 AA batteries)
- New ECO (Energy Conservation Optimized) energy-saving feature automatically powers down when not in use (NP-31: Controllable Time; NP-11: On/Off)

Slim, Light and Compact!

piaggero

This versatile keyboard provides superbly realistic instrument Voices, including grand piano, organ and strings. It also features dynamic Styles for accompanying your performance, and provides a convenient Music Database for reconfiguring all settings, so you can instantly play in any musical style!

NP-V80

A wide variety of Voices and
an enhanced speaker system with the Intelligent
Arpeggiator and a USB-TO-DEVICE port.

NP-V60

With more than meets the eye, this stunningly slim and lightweight piano is extremely versatile, thanks to 489 Voices and 160 Styles.

- 76-key Graded Soft Touch (non-weighted) action with the graded resistance of an acoustic piano
- A huge variety of instrument voices, 500 on V80 (489 Voices on V60) with 12 Drum/SFX kits
- 150 types of Arpeggio (NP-V80 ONLY) automatically generate more useful phrases that change depending on the notes and chords
- 165 (NP-V80) and 160 (NP-V60) preset accompaniment Styles
- Performance Assistant Technology (PAT) ensures every note is the right one. Interactive lesson features and 30 built-in songs help you learn how to play
- USB flash memory compatible (NP-V80)
- Slim and light body provides awesome portability
- Operates on battery power (6 AA batteries)

NP-V80

Easy to use features that help make learning fun!

PSR-E333

- Naturally expressive 61-key keyboard with touch response
- Ultra Wide Stereo function instantly expands the stereo image for a more spacious, dynamic sound
- Newly enhanced sound quality with a total of 497 high-quality instrument Voices and 10 richly textured Dual Voices
- 106 accompaniment Styles and Music Database with 100 song titles for quick keyboard setups
- Special 2-track Easy Recording feature
- Convenient Portable Grand button for instantly recalling Yamaha's world-famous grand piano sound
- Comprehensive, newly enhanced Y.E.S. 6 (Yamaha Education Suite 6) interactive learning system for the 102 built-in songs plus special "Keys To Success" and "Phrase Lesson" components
- High-quality Reverb and Chorus effects
- Easy computer and Apple iPad (with Apple iPad Camera Connection Kit*1) connectivity via the built-in USB terminal (TO HOST)
- Operates on battery power (6 AA batteries)
- Time adjustable ECO (Energy Conservation Optimized) energy-saving feature

Value-packed keyboard with interactive features

PSR-E233

- 61-key keyboard with a stylish cabinet and powerful built-in sound system
- Ultra Wide Stereo function instantly expands the stereo image for a more spacious, dynamic sound
- Newly enhanced sound quality with a total of 385 high-quality instrument Voices and 10 richly textured Dual Voices
- 100 accompaniment Styles
- Convenient Portable Grand button for instantly recalling Yamaha's world-famous grand piano sound
- Comprehensive, newly enhanced Y.E.S. 6 (Yamaha Education Suite 6) interactive learning system
- High-quality Reverb and Chorus effects
- Easy computer and Apple iPad (with Yamaha i-MX1*2) connectivity via the MIDI terminals
- ECO (Energy Conservation Optimized) energy-saving feature; also runs on battery power (6 AA batteries)

Creative, real-time controls shape your sound as you play

PSR-E423

- Naturally expressive 61-key touch response keyboard
- An impressive 700 high-quality instrument Voices and 174 accompaniment Styles
- Music Database: 305 song titles for quick keyboard setups
- Enhanced Arpeggio feature with 150 patterns—cool sounds and grooves that change with the notes and chords you play!
- Real time control with two assignable Control Knobs and Pitch Bend wheel
- 6-track sequencer for recording your own music
- USB and Flash ROM: download songs from the Internet
- Yamaha Education Suite (Y.E.S.) interactive learning system for the 30 built-in songs
- High-quality Reverb and Chorus effects
- Easy computer and Apple iPad (with Apple iPad Camera Connection Kit*1) connectivity via the built-in USB terminal (TO HOST)

Lighted keys make music fun—for everyone!

EZ-200

- 61-key touch response keyboard with lighted keys—the EZ way to learn to play!
- Total of 375 high-quality instrument Voices and 100 accompaniment Styles
- General MIDI compatible
- Fingering guide is shown in the display
- 100 built-in songs for easy learning
- Reverb effect with 9 different reverb types
- Easy computer and Apple iPad (with Yamaha i-MX1*2) connectivity via the MIDI terminals

Enter a whole new dynamic world of Oriental music

This model is only available in some areas.

Oriental Model PSR-A300 اورينتال

- 61 regular-sized touch sensitive keys and 32-note polyphony
- Total of 523 high-quality instrument Voices (108 panel Voices, 41 Arabic & Oriental Voices, 361 XGlite Voices, 12 Drum Kits and Sound Effect Kit)
- Variety of 135 accompaniment Styles (including 83 Arabic & Oriental Styles)
- Special two-track Easy Recording feature lets you record and save up to five of your original songs—great for composing and practice purposes
- New Yamaha Education Suite 5 (Y.E.S. 5) features make learning and practicing music easier and more fun than ever before
- 35 built-in songs (including 5 Arabic & Oriental Songs)—for easy learning with the Y.E.S. 5 System

iPad connection interface

*1 For the PSR-E423 and PSR-E333 (which feature a USB TO HOST terminal), iPad and instruments can be connected via an Apple iPad Camera Connection Kit using a USB cable.
*Yamaha and Apple do not and cannot warrant the performance or results you may obtain by using the Apple iPad Camera Connection Kit with Yamaha digital musical instruments.

*2 For the PSR-E233 and EZ-200 (which feature MIDI terminals), iPad and instruments can be connected via a Yamaha i-MX1 MIDI interface cable. For information on the i-MX1, refer to the Accessories page.

For information about applications visit www.yamaha.com/kbdapps

Ultra-portable, highly versatile Digital Percussion

Includes wooden sticks and two pedals

DD-65

- Eight touch sensitive drum pads plus two foot pedals
- Wide variety of percussion sounds from all over the world
- Connect CD, MD, or MP3 player to AUX IN jack, and play along with your favorite music
- Load MIDI songs from the Internet via optional USB-MIDI interface, and play along
- Flash ROM memory

Model		DD-65
Pad	Number of Pads	8
	Touch Response	Yes
Voices	Maximum Polyphony	32
	Number of Voices	254 Drum Voices + 25 Phrases
	Number of Drum Kits	50 Preset + 3 Custom
Effects	Reverb	Yes
	Equalizer	Master EQ On/Off
Songs	Number of Preset Songs	100
	Recording	5 Songs, 4 Tracks each
Lesson		Minus one/Tempo with Preset Songs
Functions	Tempo Range	11 – 320
	Miscellaneous	Hand Percussion On/Off, Track On/Off, Tap Start, Pad Start, Break, A-B Repeat, Demo
Storage		Internal Flash Memory: 350KB
Compatibility		XGlite/GM
Connection	MIDI	IN, OUT
	AUDIO IN/OUT	PHONES/OUTPUT AUX IN (Mini Plug-1/8")
	Foot Pedal	Hi-hat, Bass drum (included)
Speakers		8cm x 2
Amplifiers		5W x 2
Size		W: 602mm
		D: 411mm
		H: 180mm
Weight		4.5 kg

Accessories

PA-150
POWER ADAPTOR

PA-130
POWER ADAPTOR

UX16
USB-MIDI INTERFACE

Easily and directly connects your computer and MIDI instrument

Controls all MIDI channels—16 in/16 out

Compatible with all major operating systems: Windows 7, Windows Vista, Windows XP, Windows 2000 and Mac OS 8.6 – 9.2.2, OS X 10.4 – 10.6

Data indicator lets you check operation status

Powered by the USB connection

Exceptionally easy, true Plug-and-Play installation

FC4
FOOT SWITCH

FC5
FOOT SWITCH

FC7
FOOT CONTROLLER

TRS-MS04
OPTION SPEAKER

L-7S
KEYBOARD STAND

L-2C
KEYBOARD STAND

HPE-150
HEADPHONES

HPE-170
HEADPHONES

i-MX1
MIDI INTERFACE
FOR iPhone/iPod touch/iPad

MODEL	POWER ADAPTOR		KEYBOARD STAND		FOOT SWITCH	FOOT CONTROLLER		OPTION SPEAKER	USB-MIDI INTERFACE	MIDI INTERFACE CABLE FOR iPhone/iPod touch/iPad
	PA-130	PA-150	L-2C	L-7S	FC4/5	FC7	MFC10	TRS-MS04	UX16	i-MX1
Tyros4				✓	✓	✓	✓	✓	✓	✓
PSR-S910 *1				✓	✓	✓			✓	✓
PSR-S710 *1				✓	✓	✓			✓	✓
PSR-A2000 *1				✓	✓	✓			✓	✓
PSR-S650 *1				✓	✓					
NP-V80 *1 *2		✓	✓		✓					
NP-V60 *1		✓	✓		✓					
NP-31/S *1		✓	✓		✓				✓	✓
NP-11 *1	✓		✓		✓				✓	✓
PSR-E423 *1	✓		✓		✓					
PSR-E333 *1	✓		✓		✓					
PSR-E233 *1	✓		✓		✓				✓	✓
PSR-A300 *1	✓		✓		✓				✓	✓
EZ-200	✓		✓		✓				✓	✓
DD-65 *3		✓							✓	✓

*1 Adaptor included *2 Pedal SW bundled *3 Two assignable foot pedals included ● Bundle conditions and availability of optional accessories may vary from country to country

Data Storage

USB Connection

Two different types of USB terminals are provided.

USB TO HOST

Connect a computer to the USB TO HOST terminal for data transfer and MIDI recording between the instrument and the computer.

USB TO DEVICE

Connect a USB storage device to this terminal for saving and loading your important data.

*For details about compatible USB devices, refer to the Yamaha website.

Online services

Take your music to the next level! With a Yamaha instrument and Online Services, you can learn, play and enjoy music in ways you never thought possible. Visit us at services.music.yamaha.com and see just how far you can expand your musical horizons.

Play

Play with Styles

Bring a full band sound to your solo performances—easy to control beats, fills, bass lines, and harmony accompaniments add depth and expression to your songs and help you play like a pro.

PREMIUM STYLES

Compatible Models:
Tyros4, PSR-S910/S710/A2000

Play Right Away

Trying to set up your keyboard to play a particular song? Song "Records" make it easy, with perfect voice and Style setups for an authentic rendition of any popular song.

MUSIC FINDER

Compatible Models:
Tyros4, PSR-S910/S710

Play with Songs

Discover new ways to play with Yamaha song downloads. You can mute parts or create new ones, change instrument voicings, adjust volumes, tempos, keys, and more—play along however you want.

XG XGlite XF MIDI

Learn

Take Lessons

A Yamaha instrument is a great learning tool, offering many new, exciting and easy ways to learn music. Even if you've never played before, interactive instrument functions and online lessons will have you playing in no time.

YAMAHA PRESENTS PASSPORT TO Music DIGITAL LESSON BOOKS

Listen

Listen to Radio

Imagine your favorite artists performing in your home! Get 24 hour access to over a dozen channels of high quality piano music that play directly through your instrument for a unique listening experience.

(((RADIO)))

Compatible Models:
Tyros4, PSR-S910/S710

Listen to Songs

Open up your ears to a new way to listen to music—classic, professional interpretations of the world's greatest songs, played with the famous Yamaha piano sound.

PianoSoft™

Compatible Models:
Tyros4, PSR-S910/S710/A2000/S650

services.music.yamaha.com
eu.yamahamusicsoft.com

Digital Workstation

Models		Tyros4	PSR-S910	PSR-S710	PSR-A2000	PSR-S650
Keys		61 (FSX)	61 (Organ Style)	61 (Organ Style)	61 (Organ Style)	61 (Organ Style)
Touch Response		Yes	Yes	Yes	Yes	Yes
After Touch		Yes	–	–	–	–
Polyphony		128	128	128	128	64
Tone Generation	Voices	Voice x 993 XG x 480 Drum/SFX kit x 44 GM2 x 256 GS	Voice x 678 XG x 480 Drum/SFX kit x 28 GM2 GS	Voice x 387 XG x 480 Drum/SFX kit x 24 GM2 GS	Voice x 565 XG x 480 Drum/SFX kit x 33 GM2 GS	Voice x 357 XG x 480 Drum/SFX kit x 28 GM2 GS
	Featured Voices	Super Articulation 2 Voice x 15 Super Articulation Voice x 164 MegaVoice x 43 Sweet! Voice x 30 Cool! Voice x 71 Live! Voice x 101 Drums x 44 Organ Flutes! x 30	Super Articulation Voice x 38 Mega Voice x 18 Sweet! Voice x 24 Cool! Voice x 46 Live! Voice x 29 Organ Flutes! x 10	Mega Voice x 15 Sweet! Voice x 23 Cool! Voice x 33 Live! Voice x 19 Organ Flutes! x 10	Mega Voice x 15 Sweet! Voice x 23 Cool! Voice x 33 Live! Voice x 19 Organ Flutes! x 10 Middle Eastern Voice x 43	Mega Voice x 9 Sweet! Voice x 12 Cool! Voice x 22 Live! Voice x 18
Effects	Block	Reverb Chorus DSP x 9 Vocal Effect	Reverb Chorus DSP x 4 (incl. MIC)	Reverb Chorus DSP x 4	Reverb Chorus DSP x 4	Reverb Chorus DSP x 1
	Equalizer	Master EQ Master Compressor Part EQ x 29	Master EQ Part EQ x 28	Master EQ Part EQ x 28	Master EQ Part EQ x 28	Master EQ
	MIC Effect	Vocal Harmony 2 (3-part harmony, dedicated DSP block and Synth Vocoder), EQ, Noise Gate and Compressor	Vocal Harmony (3-part harmony), EQ, Noise Gate and Compressor	–	–	–
Accompaniment Style	Preset	500	322	232	351 Incl. 146 Middle Eastern Style	181
	User	Yes (unlimited) *1	Yes (unlimited) *1	Yes (unlimited) *1	Yes (unlimited) *1	Yes
Additional Features	USB Audio Recorder	Yes	Yes	Yes	Yes	–
	One Touch Settings	Yes	Yes	Yes	Yes	Yes
	Super Articulation 2 Style	Yes	–	–	–	–
	MegaVoice Style	Yes	Yes	Yes	Yes	Yes
	Style Creator	Yes	Yes	Yes	Yes	Yes
Song	Preset	5	5	5	5	9
	On-board Recorder	16-Track	16-Track	16-Track	16-Track	16-Track
Multi Pad	Preset Bank	4 Pads x 164 Banks	4 Pads x 123 Banks	4 Pads x 103 Banks	4 Pads x 135 Banks	–
	User Bank	Yes (unlimited) *1	Yes (unlimited) *1	Yes (unlimited) *1	Yes (unlimited) *1	–
Performance Assistant Technology		Yes	Yes	Yes	Yes	–
Display	Type	640 x 480 dots Full Dot TFT LCD	TFT Color QVGA LCD	320 x 240 dots QVGA B/W LCD	320 x 240 dots QVGA B/W LCD	320 x 240 dots QVGA B/W LCD
	Score	Yes	Yes	Yes	Yes	Yes
	Lyrics	Yes	Yes	Yes	Yes	Yes
Music Finder/Music Data base		Yes	Yes	Yes	Yes	Yes
Registration Memory		8 x unlimited banks	8 x unlimited banks	8 x unlimited banks	8 x unlimited banks	8 x 8 banks
Control	Pitchbend	Yes	Yes	Yes	–	Yes
	Modulation	Yes	Yes	Yes	–	–
	Joystick	–	–	–	Yes	–
Internet Direct Connection		Yes	Yes	Yes	–	–
Storage Device		Internal Flash Memory: 6 MB HDD (internal) External Drives *2 (optional)	Internal Flash Memory: 2.4 MB External Drives *2 (optional)	Internal Flash Memory: 1.4 MB External Drives *2 (optional)	Internal Flash Memory: 3.4 MB External Drives *2 (optional)	Internal Flash Memory: 1,130 KB External Drives *2 (optional)
Compatibility		GM/GM2/XG/XF/GS/SFF/SFF GE	GM/GM2/XG/XF/GS/SFF/SFF GE	GM/GM2/XG/XF/GS/SFF/SFF GE	GM/GM2/XG/XF/GS/SFF/SFF GE	GM/GM2/XG/XF/GS/SFF/SFF GE
Connection	LAN Port	Yes	Yes	Yes	–	–
	USB TO DEVICE	Yes	Yes	Yes	Yes	Yes
	USB TO HOST	Yes	Yes	Yes	Yes	Yes
	MIDI	IN x 2, OUT x 2	IN, OUT	IN, OUT	IN, OUT	– *4
	VIDEO OUT	RGB and Video Out	Yes	–	–	–
	AUDIO IN/OUT	OUTPUT X 4 LOOP SEND/AUX OUT: SELECTABLE TO SPEAKER SYSTEM PHONES LOOP RETURN/AUX IN	OUTPUT (L/L+R, R) AUX IN (L/L+R, R) MIC/LINE IN	OUTPUT (L/L+R, R) AUX IN (L/L+R, R)	OUTPUT (L/L+R, R) AUX IN (L/L+R, R)	PHONES/OUTPUT
	FOOT PEDAL	Switch or Volume x 3 (optional)	Switch or Volume x 2 (optional)	Switch or Volume x 2 (optional)	Switch or Volume x 2 (optional)	Switch Sustain (optional)
Speakers		TRS-MS04 (optional)	[12cm + 4cm (dome)] x 2	(12cm + 5cm) x 2	(12cm + 5cm) x 2	(12cm + 3cm) x 2
Amplifiers		–	12W x 2	12W x 2	12W x 2	12W x 2
Dimensions (WxDxH)		1140 x 450 x 143 mm	1003 x 433 x 148 mm	1003 x 433 x 148 mm	1003 X 433 X 148 mm	946 x 405 x 137 mm
Weight		14.5 kg	11 kg	10 kg	11 Kg	7.3 kg

*1 Because the file is saved to User Drive, CARD or USB devices FD or HD, the maximum number is limited according to the capacity of the drive and the maximum number of files & folders in a folder.
*2 FDD, USB Flash Memory etc. For details, please contact your nearest Yamaha representative.
*3 The Yamaha Education Suite (Y.E.S.) is a set of learning tools that utilize the latest technology to make studying and practicing music more fun and fulfilling than ever before.

Piaggero

Models		NP-V80	NP-V60	NP-31/S	NP-11
Keys		76 (Graded Soft Touch)	76 (Graded Soft Touch)	76 (Graded Soft Touch)	61 (Piano Style)
Touch Response		Yes	Yes	Yes	Yes
Polyphony		32	32	32	32
Tone Generation	Voices	Voice x 127 XGlite x 361 Drum/SFX Kit x 12	Voice x 116 XGlite x 361 Drum/SFX Kit x 12	Voice x 10	Voice x 10
	Featured Voices	Sweet! Voice x 8 Cool! Voice x 5 Live! Voice x 3	Sweet! Voice x 5 Cool! Voice x 3	–	–
Effects	Block	Reverb Chorus Harmony	Reverb Chorus Harmony	Reverb	Reverb
	Equalizer	Master EQ x 5	Master EQ x 5	–	–
Accompaniment Style	Preset	165	160	–	–
	User	Yes	Yes	–	–
Additional Features		Arpeggio One Touch Setting	One Touch Setting	–	–
Song	Preset	30 + Song x 70 (CD-ROM)	30 + Song x 70 (CD-ROM)	20	20
	On-board Recorder	6-Track 5-Song	6-Track 5-Song	–	–
Lesson		Y.E.S. *3	Y.E.S. *3	–	–
Performance Assistant Technology		Yes	Yes	–	–
Easy Song Arranger		Yes	Yes	–	–
Music Finder/Music Data base		Yes (Music Database)	Yes (Music Database)	–	–
Registration Memory		4 x 8 banks	4 x 8 banks	–	–
Pitchbend wheel		Yes	Yes	–	–
Storage Device		Internal Flash Memory: 1.8 MB	Internal Flash Memory: 1.8 MB	–	–
Compatibility		XGlite/GM/SFF	XGlite/GM/SFF	–	–
Connection	USB TO DEVICE	Yes	–	–	–
	USB TO HOST	Yes	Yes	–	–
	MIDI	– *4	– *4	IN, OUT	IN, OUT
	AUDIO IN/OUT	PHONES/OUTPUT	PHONES/OUTPUT	PHONES/OUTPUT	PHONES/OUTPUT
	FOOT PEDAL	Sustain (Included)	Sustain (optional)	Sustain (optional)	Sustain (optional)
Speakers		(12cm x 6cm + 5cm) x 2	(12cm + 6cm) x 2	(12cm + 6cm) x 2	(12cm + 6cm) x 2
Amplifiers		6W x 2	6W x 2	6W x 2	2.5W x 2
Dimensions (WxDxH)		1264 x 312 x 111 mm	1228 x 312 x 111 mm	1244 x 259 x 105 mm	1036 x 259 x 105 mm
Weight *5		7.1 kg	6.3 kg	5.7 kg	4.5 kg

Digital Keyboard

Models		PSR-E423	PSR-E333	PSR-E233	PSR-A300	EZ-200
Keys		61 (Organ Style)	61 (Organ Style)	61 (Organ Style)	61 (Organ Style)	61 (Organ Style)
Touch Response		Yes	Yes	–	Yes	Yes
Polyphony		32	32	32	32	32
Tone Generation	Voices	Voice x 183 XGlite x 462 Drum/SFX kit x 15 Arpeggio Voice x 40	Voice x 140 (Include 5 Chinese Voices) XGlite x 344 Drum/SFX/SE kit x 13	Stereo Grand Piano x 1 XGlite x 371 Drum/SFX/SE kit x 13	Voice x 143 XGlite x 361 Drum/SFX x 19	Stereo Grand Piano x 1 XGlite x 361 Drum/SFX/SE Kit x 13
	Featured Voices	Sweet! Voice x 5 Cool! Voice x 3	–	–	Oriental Voice x 35 Oriental Percussion x 6	–
Effects	Block	Reverb Chorus Harmony	Reverb Chorus Harmony	Reverb Chorus	Reverb Chorus	Reverb
	Equalizer	Master EQ x 5	–	–	–	–
Accompaniment Style	Preset	174	106	100	135	100
	User	Yes	Yes	–	–	–
Additional Features		Control Knob x 2 Arpeggio One Touch Setting	One Touch Setting	One Touch Setting	One Touch Setting	One Touch Setting
Song	Preset	30 + Song x 70 (CD-ROM)	102	102	35	100
	On-board Recorder	6-Track 5-Song	2-Track 5-Song	–	2-Track Song x 5	–
Lesson		Y.E.S. *3	Y.E.S. *3 KEYS TO SUCCESS	Y.E.S. *3	Y.E.S. *3	Y.E.S. *3 Guide Lamp
Performance Assistant Technology		Yes	–	–	–	–
Easy Song Arranger		Yes	–	–	–	–
Music Finder/Music Data base		Yes (Music Database)	Yes (Music Database)	–	–	–
Registration Memory		2 x 8 banks	–	–	–	–
Pitchbend wheel		Yes	–	–	Yes	–
Storage Device		Internal Flash Memory: 1.8 MB	Internal Flash Memory: 1.7 MB	–	Internal Flash Memory: 373 KB	–
Compatibility		XGlite/GM/SFF	XGlite/GM/SFF	XGlite/GM	XGlite/GM	XGlite/GM
Connection	USB TO HOST	Yes	Yes	–	–	–
	MIDI	– *4	– *4	IN, OUT	IN, OUT	IN, OUT
	AUDIO IN/OUT	PHONES/OUTPUT	PHONES/OUTPUT	PHONES/OUTPUT	PHONES/OUTPUT	PHONES/OUTPUT
	FOOT PEDAL	Sustain (optional)	Sustain (optional)	Sustain (optional)	Sustain (optional)	Sustain (optional)
Speakers		(12cm + 3cm) x 2	12cm x 2	12cm x 2	12cm x 2	12cm x 2
Amplifiers		2.5W x 2	2.5W x 2	2.5W x 2	2.5W x 2	2.5W x 2
Dimensions (WxDxH)		946 x 402 x 136 mm	945 x 369 x 132 mm	945 x 348 x 118 mm	945 x 370 x 128 mm	945 x 348 x 110 mm
Weight *5		7.0 kg	4.9 kg	4.5 kg	5.1 kg	4.7 kg

*4 MIDI is supported via the USB TO HOST terminal.
*5 Not including batteries.

• Specifications and appearance are subject to change without prior notice. Availability of models may vary from country to country.
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